**MUNI**

## Information

**MASARYK UNIVERSITY**

This research project conducted at Masaryk University (Czech Republic) focuses on the security relationship between a state and its citizens in cyberspace. It aims to improve cybersecurity of all actors. To do that, we need your perspective.

The survey should take approx. **35 minutes** (max. 1 hour) to complete. There is a progress bar above. You cannot return to it once you leave.

As compensation for your time, you will be paid 4 USD via the Amazon Mechanical Turk platform. You will receive a unique ID at the end of the survey - copy and paste it to Amazon Mechanical Turk.

**Please, be conscientious with your answers and take your time. Nonsensical and clearly sloppy answers (e.g. copied text from the web) can lead us not to authorize the payment for the survey completion! This also applies to overly non-coherent answers (the survey employs control questions and timers). You cannot return to previous questions.**

The whole data-collection process is in accordance with the strict EU data protection laws.
 --> We do not collect names and we anonymise all data.
 --> We will publish aggregated results in a scientific study that will not make it possible to identify you.

In case of questions, problems or requests, please contact us
at state.citizen.cyberspace@gmail.com.

By continuing, you agree to the terms of this research stated above.

Are you a robot?

☐ I'm not a robot

reCAPTCHA
Privacy - Terms
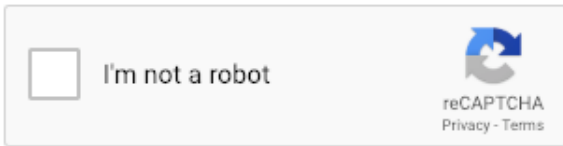
## Subject info

To help us understand something about the range of people taking part in this research, we would be grateful if you would answer the following questions about yourself. It is completely anonymous.

Before we proceed, we need you to be on the same page as us:

By **public institutions,** we mean those who run public affairs on behalf of the government - from municipalities to security agencies (including police and clandestine services).

By **private institutions,** we mean security and IT corporations and firms, both providers of services and vendors of computers.

How old are you?

[                                                                              ]

In which country have you spent most of your life?

[                                                        ⌄]

According to you, **how much** (in %) do **politicians share moral values** and **principles** with **citizens**?

| 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

%                                                                          [        ]

What is your gender?

○ Male
○ Female
○ Prefer not to say

Please **select all** that **apply** to you:

☐ I use antivirus software.
☐ I keep most software on my devices up to date.

- ☐ I regularly change passwords or use the password manager.
- ☐ Most of the time, I am careful which links do I click on.
- ☐ I use the two-factor authentication (e.g. password + SMS) wherever possible.
- ☐ I use VPN (virtual private network) software when security risks are high (e.g., connection to a public WiFi).
- ☐ Nothing of the above.

What **do you value most** in cyberspace? Please elaborate using at least 100 characters.

[                                                                    ]

### SC description

You have completed the first part of the survey. Thank you! Now we would like to know how does your cyberspace looks like. Please **describe it as it is** (you will have the opportunity to express how things should be in the next batch of questions).

Who **is** responsible for your cybersecurity (including privacy)? And how much (in %; must total 100)?

| | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| You | | | | | | | | | | | | 0 |
| Public institutions | | | | | | | | | | | | 0 |
| Private providers and vendors (e.g., antivirus company) | | | | | | | | | | | | 0 |
| Other institutions | | | | | | | | | | | | 0 |
| **Total:** | | | | | | | | | | | | **0** |

How **are public** institutions **responsible** for your cybersecurity (including privacy)? What do they do to protect you? Please elaborate using at least 100 characters.

[                                                                    ]

How **are private** institutions **responsible** for your cybersecurity (including privacy)? What do they do to protect you? Please elaborate using at least 100 characters.

Please **list** the **other** institutions and specify **how are** they **responsible** for your cybersecurity (including privacy)? What do they do to protect you? Please elaborate using at least 100 characters.

Do you see the previously mentioned kinds of **institutions** (public, private, or any other) as **providers of security** or as a **threat**?

○ I see them solely as providers of security.
○ I see them solely as a threat.
○ I see them both as security providers and as a threat.

**Why** and **how** do you see the institutions (public, private or other) **only** as a **provider**? Please elaborate using at least 100 characters.

**Why** and **how** do you see the institutions (public, private or other) **only** as a **threat**? Please elaborate using at least 100 characters.

**Why** and **how** do you see the institutions (public, private or other) as both a **threat** and as **providers of security**? Please elaborate using at least 100 characters.

**Initpos+actrs**

Do you agree with these statemets?

|  | Strongly disagree | Somewhat disagree | Neither agree nor disagree | Somewhat agree | Strongly agree |
|---|---|---|---|---|---|
| The main purpose of moral values is to ease cooperation between people | ○ | ○ | ○ | ○ | ○ |
| I would not cheat on others in cyberspace because it is not the right thing to do | ○ | ○ | ○ | ○ | ○ |
| I would cooperate with others in cyberspace only if it is beneficial for me | ○ | ○ | ○ | ○ | ○ |
| I would cooperate with others in cyberspace because it is moral to do it | ○ | ○ | ○ | ○ | ○ |
| I would not cheat on others in cyberspace out of fear of their retribution | ○ | ○ | ○ | ○ | ○ |

Do you agree with these statemets?

| | Strongly disagree | Somewhat disagree | Neither agree nor disagree | Somewhat agree | Strongly agree |
|---|---|---|---|---|---|
| Cyberspace would be insecure and dangerous for me without rules | ○ | ○ | ○ | ○ | ○ |
| I would endorse any rule for cyberspace that I would benefit from, even if it is a non-liberal or non-democratic one | ○ | ○ | ○ | ○ | ○ |
| Ethical rules, moral norms and principles change with time | ○ | ○ | ○ | ○ | ○ |
| I would endorse cyberspace rules that I would benefit from, but only the ethical ones | ○ | ○ | ○ | ○ | ○ |

**SC how should it be**

Now we would like to ask how things **should be** according to you.

Who **should be** responsible for providing your cybersecurity and privacy? And how much in % (must total 100)?

| | 0 | 20 | 40 | 60 | 80 | 100 | |
|---|---|---|---|---|---|---|---|
| You | | | | | | | 0 |
| Public institutions | | | | | | | 0 |
| Private providers and vendors (e.g., antivirus company) | | | | | | | 0 |
| Other institutions | | | | | | | 0 |
| **Total:** | | | | | | | **0** |

What **should** the **public** institutions do to **protect** you in cyberspace for you to feel relatively safe? In **which areas** and **how**? What measures (legislative, service etc.) should they take? Please elaborate using at least 100 characters.

[text box]

What **should** the **private** institutions do to **protect** you in cyberspace for you to feel relatively safe? In **which areas** and **how**? What services should they offer? Please elaborate using at least 100 characters.

Please **list** the **other institutions** and specify what the **other institutions should do** to **protect** you in cyberspace for you to feel relatively safe? In **which areas** and **how**? What measures (legislative, service etc.) should they take? Please elaborate using at least 100 characters.

Should these actors even take steps to secure you in cyberspace?

|                      | Yes | No |
|----------------------|-----|----|
| Public institutions  | ◯   | ◯  |
| Private institutions | ◯   | ◯  |
| Other institutions   | ◯   | ◯  |

Now we would like to know, how similar or different do you see cyberspace and offline world regarding the rules and norms.

Do the same offline, **real-world rules** (laws, moral norms, principles) **apply** to **cyberspace**? **Why** yes or not? Please elaborate with at least 100 characters.

**Should** or **should not** the same rules (laws, moral norms, principles) as in the real world apply to cyberspace? **Why**? Please elaborate using at least 100 characters.

Which year you were born in?

**Game theory 1**

You are almost at the end! The last thing we ask you to do is to **imagine two following hypothetical scenarios** and answer a simple question for each of them.

Hypothetical scenario:

Imagine you are part of a society that has an **unwritten rule** that every member of society should use the **same cybersecurity software**. Cyber attackers usually go after the **weakest targets**, hence, if everybody uses the same security software, the **risk is evenly distributed** in that society, and it is thus **collectively low**. However, the risk does **not** equal **zero,** and you can still end up being a target and lose money and data to the attackers.

A security company **one-time offers you** and a handful of other members of your society a test version of much **better security software**.

--> If you **accept** it, it will significantly **reduce the risk** of a cyberattack targeted at **you** but **increase the same risk** for **anyone else** without the software (also, these people will probably not be happy with you).
--> If you **do not accept** it, there is a chance that someone will, and you will end up in a group of people for which the **risk** of a cyberattack will **increase**.

Would you accept the security company´s one-time offer for better software in such conditions?

Yes, I would accept.    No, I would not accept.
　　　　○　　　　　　　　　　○

**Game theory 2**

Hypothetical scenario:

Imagine that **you** and your acquaintance Bob **can implement only one cybersecurity solution** to defend yourselves against attackers. Both of you have two choices - you can either **cooperate** together or **work alone.** You do not know what Bob chose until you make your own choice.

Four eventualities can happen here:

1.) You **both choose to cooperate,** and you both **reduce the risk** of a successful cyberattack **by 30%**.

2.) **You choose to cooperate**, but **Bob chooses to work alone**. You completely fail because you cannot implement the cooperative defensive solution without Bob, and **you do not reduce the risk for yourself** at all. **Bob**, however, chose a simpler solution that he managed to implement alone and **raised his security by 20%**. All the attackers go after you because you are easy prey compared to Bob.

3.) Conversely, **you choose to work alone,** and **Bob chooses to cooperate**. Now **Bob** is the one who does **not raise his security** at all while **your´s increases by 20%**. **Bob is**, however, logically **not happy** with your decision.

4.) **Both of you choose to work alone**. However, **both** of you only **reduce the risk by 10%** because you implement the exact same simple solution, which is not very powerful against the attackers.

Here are all four eventualities in a matrix:

|  |  | Bob | |
|---|---|---|---|
|  |  | **Cooperate** | **Work alone** |
| **You** | **Cooperate** | Both reduce risk by 30% | Bob reduces risk by 20%, you by 0% |
|  | **Work alone** | You reduce risk by 20%, Bob by 0% | Both reduce risk by 10% |

Would you choose to cooperate or work alone under such conditions?

I would choose to cooperate.

○

I would choose to work alone.

○

Would you **still choose** to **cooperate** if you **did not know** Bob?

○ Yes.

○ No.

Would you **still choose** to **work alone** if you **did not know** Bob?

○ Yes.

○ No.

**Prvc_sec**

Sometimes, security and privacy can be in conflict. For example, when a clandestine service launches a bulk surveillance of all the citizens and states that it is to prevent terrorism. What would you prefer in such cases? And how much (in %; must total 100)?

|          | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | |
|----------|---|----|----|----|----|----|----|----|----|----|-----|-----|
| Security |   |    |    |    |    |    |    |    |    |    |     | 0 |
| Privacy  |   |    |    |    |    |    |    |    |    |    |     | 0 |
| **Total:** |   |    |    |    |    |    |    |    |    |    |     | **0** |

Is there anything else you would like to add about?

[                                                                    ]

**Follow-up**

Thank you very much for your participation!

**Here is your Amazon Mechanical Turk ID:** CS-${e://Field/RandomSurveyID}-SC

**Do not forget to copy and paste it to Amazon Mechanical Turk!**

There will be more research so if you want the opportunity to participate in this project further, enter your email below.

In case of questions, problems or requests, please contact us at state.citizen.cyberspace@gmail.com.

**Please, click the next button bellow to finish the survey.**

Please, enter you e-mail address, if you want to participate in this research in the future: